

## WORLD INTELLECTUAL PROPERTY ORGANIZATION



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6:	1	(11) International Publication Number: WO 97/3201
C12N 9/02, 15/82	A1	(43) International Publication Date: 4 September 1997 (04.09.9)
(21) International Application Number: PCT/US (22) International Filing Date: 27 February 1997 ( (23) Priority Data: 60012,705 28 February 1996 (28.02.96 60013.612 28 February 1996 (28.02.96 60013.612 28 February 1996 (28.02.96 60020.003 21 June 1996 (21.06.98) (71) Applicant (for all designated States except US): NO AG [CH/CH]; Schwarzwaldallee 215, CH-4058 Ba 72b Inventors; and 75 Inventors/Applicants (for US only): VOLRATH, L. (US/US); 4225 Pine Oak Drive, Durham, Ni (US). 104/NSON, Marie, A. (US/US); 408 Health Raleigh, NC 27606 (US). POTTER, Sharon, L. J. 3837 Whispering Branch Road, Raleigh, NC 2766 WARD, Eric, R. (US/US); 3003 Mongomery Durham, NC 27705 (US). HEIFETZ, Peter, B. [3916 Starbridge Drive, Durham, NC 27701 (US).	27.02.9' ) U ) U  VARTI sel (CH  Sandra C 2770 er Drive (US/US) 13 (US, y Stree (US/US)	ČZ, FI, GE, GH, HU, JP, KG, KR, KZ, LC, LK, LV, MI, MG, MN, MW, NO, XZ, PL, RO, RU, SD, SK, TJ, U, U, SU, GV, TY, WI, Buropean patent (AT, BE, CH, DE, DI ES, FI, FR, GB, GR, ET, TL LU, MC, N, PT, SB, OAS, SN, TD, TG).  Published  With international search report.  Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.
54) Title: DNA MOLECULES ENCODING PLANT PI TANTS THEREOF 57) Abstract	ROTOP	DRPHYRINOGEN OXIDASE AND INHIBITOR-RESISTANT MU
The present invention provides novel DATA	oodi	for plant protonombusinosan avidess (master) annua : 5
heat, cotton, sugar beet, grape, rice and sorghum. In addi- erbicide tolerant, Plants expressing herbicide tolerant proto	ition, th	for plant protoporphyrinogen oxidase (protox) enzymes from soybean persent invention teaches modified forms of protox enzymes that are set stugdit herein are also provided. These plants may be engineered fo e to a resistant form or they may be transformed with a gene encoding